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Effect of Cocarcinogens and Tumor Promoters on DNA Repair in Mammalian Cells Susceptible to Chemical Transformation.

The objectives of this project are to determine whether cigarette smoke condensate fractions or other tumor promoters may act through the inhibition of DNA repair, and to determine whether exposure of animals to whole smoke may result in reduced DNA repair capacity.

Cell cultures derived from experimental animals and humans will be exposed to smoke condensate fractions and the effect on DNA repair will be examined. Tissues of exposed animals will be examined for their ability to respond to challenge by agents which are known to damage DNA, including alkylating agents and hydrocarbon carcinogens. Inbred strains of mice will be studied to determine whether genetic differences exist in the ability to carry out DNA repair.

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